

AMENDMENTS TO THE CLAIMS

Claims 1-3 (canceled).

Claim 4 (original). A tomogram creating method, comprising the following steps:

a first structural tomogram creating step for creating data about a first structural tomogram, based on a first radiation detect signal detected in an unbreathed state of a body to be examined, with respect to radiation transmitted through the body;

a second structural tomogram creating step for creating data about a second structural tomogram, based on a second radiation detect signal detected in a breathed state of the body with respect to radiation transmitted through the body;

a correction information creating step for creating correction information of a tomogram, based on the first structural tomogram data and the second structural tomogram data; and

a functional tomogram creating step for creating data about a functional tomogram, based on a third radiation detect signal detected in the breathed state of the body with respect to radiation emitted from the body due to a radioactive medical agent, and the correction information.

Claim 5 (original). The tomogram creating method according to claim 4, wherein the first radiation detect signal and the second radiation detect signal are detect signals outputted from discrete radiation examining apparatuses each of which detects the radiation emitted from a radiation source and transmitted through the body.

Claim 6 (original). The tomogram creating method according to claim 4, wherein the second radiation detect signal and the third radiation detect signal are detect signals outputted from radiation detectors of radiation examining apparatuses used in both

a second examination for irradiating the body with first radiation from a radiation source and detecting the same, and a third examination for detecting second radiation emitted from the body due to a radioactive medical agent.

Claim 7 (original). The tomogram creating method according to claim 6, wherein the first radiation detect signal is a detect signal outputted from the radiation detector of the radiation examining apparatus used in a first examination for irradiating the body in an unbreathed state with second radiation from the radiation source and detecting the same.

Claim 8 (original). The tomogram creating method according to any of claims 4 to 7, wherein the functional tomogram creating step has a step for creating data about a first functional tomogram, based on the third radiation detect signal, and a step for creating data about a second functional tomogram obtained by correcting the first functional tomogram data by the correction information.

Claim 9 (original). The tomogram creating method according to any of claims 4 to 7, wherein the functional tomogram creating step includes a step for creating voxel information in a body, based on the third radiation detect signal, and a step for creating data about the functional tomogram, based on the voxel information corrected by the correction information.

Claims 10-16 (canceled).